

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	9	(calori? or diet) restrict\$ same (mimic or simulate or represent)	USPAT	ADJ	ON	2004/10/26 17:13

\$@STN;HighlightOn= \*\*\*;HighlightOff=\*\*\* ;

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fields  
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Patent Office Classifications  
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!  
(Version 7.01 for Windows) now available  
NEWS 7 AUG 27 BIOMERCE: Changes and enhancements to content coverage  
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal  
status data from INPADOC  
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available  
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
STN Express with Discover!  
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
NEWS 12 SEP 27 STANDARDS will no longer be available on STN  
NEWS 13 SEP 27 SWETSCAN will no longer be available on STN

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AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004

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=> index biosci

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,  
AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,  
BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB,  
CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 17:18:49 ON 26 OCT

2004

75 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view  
search error messages that display as 0\* with SET DETAIL OFF.

=> s (calorie or caloric or diet) (w) restrict?

70 FILE ADISCTI

5 FILE ADISINSIGHT

4 FILE ADISNEWS

762 FILE AGRICOLA

1 FILE ANTE

11 FILE AQUASCI

23 FILE BIOBUSINESS

2 FILE BIOCOMMERCE

16 FILE BIOENG

2768 FILE BIOSIS

2 FILE BIOTECHABS

2 FILE BIOTECHDS

1943 FILE BIOTECHNO

1003 FILE CABA

362 FILE CANCERLIT

2568 FILE CAPLUS

1 FILE CEABA-VTB

1 FILE CIN

5 FILE CONFSCI

137 FILE CROPB

1 FILE CROPU

2 FILE DDFB

45 FILE DDFU

<-----User Break----->

=> s (((calorie or caloric or diet) (w) restrict?)) (p) aging

UNMATCHED LEFT PARENTHESIS '('

The number of right parentheses in a query must be equal to the  
number of left parentheses.

=> s (((calorie or caloric or diet) (w) restrict?)) (p) aging

0\* FILE ADISNEWS

37 FILE AGRICOLA

0\* FILE ANTE

0\* FILE AQUALINE

3 FILE BIOBUSINESS

2\* FILE BIOCOMMERCE

3\* FILE BIOENG  
462 FILE BIOSIS  
1\* FILE BIOTECHS  
183\* FILE BIOTECHNO  
140 FILE CABA  
55 FILE CANCERLIT  
589 FILE CAPLUS  
0\* FILE CEABA-VTB  
0\* FILE CIN  
12 FILE CONFSCI  
4 FILE DDFU  
32 FILE DISSABS  
6 FILE DRUGU  
6 FILE ENBAL  
443 FILE ENBASE  
33 FILES SEARCHED...  
291\* FILE ESBIOBASE  
85\* FILE FEDRIP  
0\* FILE FOMAD  
0\* FILE FORGE  
14\* FILE FROSTI  
3\* FILE FSTA  
6 FILE IFIPAT  
26 FILE JICST-BPLUS  
0\* FILE KOSMET  
76 FILE LIFESCI  
1\* FILE MEDICOF  
473 FILE MEDLINE  
1 FILE NIOSHTIC  
3\* FILE NTIS  
0\* FILE NUTRACEUT  
172\* FILE PASCAL  
0\* FILE PHARMAML  
27 FILE PROMT  
572 FILE SCISEARCH  
65 FILES SEARCHED...  
214 FILE TOXCENTER  
53 FILE USPATFULL  
4 FILE USPAT2  
1 FILE VETU  
0\* FILE WATER  
3 FILE WPIDS  
3 FILE WPINDEX

37 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L1 QUE (((CALORIC OR CALORIC OR DIET) (W) RESTRICT?)) (P) AGING

=> s l1 and (mimic or simulat?)

0\* FILE ADISNEWS  
0\* FILE ANTE  
0\* FILE AQUALINE  
1 FILE BIUBUSINESS  
0\* FILE BIOCOMMERCE  
0\* FILE BIOENG  
6 FILE BIOSIS

0\* FILE BIOTECHABS  
0\* FILE BIOTECHDS  
1\* FILE BIOTECHNO  
1 FILE CABA  
1 FILE CANCERLIT  
12 FILE CAPLUS  
0\* FILE CEABA-VTB  
0\* FILE CIN  
1 FILE DDFU  
2 FILE DISSABS  
28 FILES SEARCHED...  
1 FILE DRUGU  
5 FILE ENBASE  
3\* FILE ESBIOBASE  
9\* FILE FEDRIP  
0\* FILE FOMAD  
0\* FILE FORGE  
2\* FILE FROSTI  
0\* FILE FSTA  
5 FILE IFIPAT  
0\* FILE KOSMET  
1 FILE LIFESCI  
0\* FILE MEDICOF  
6 FILE MEDLINE  
0\* FILE NTIS  
52 FILES SEARCHED...  
0\* FILE NUTRACEUT  
1\* FILE PASCAL  
0\* FILE PHARMAML  
7 FILE PROMT  
7 FILE SCISEARCH  
7 FILE TOXCENTER  
22 FILE USPATFULL  
4 FILE USPAT2  
0\* FILE WATER  
1 FILE WPIDS  
1 FILE WPINDEX

24 FILES HAVE ONE OR MORE ANSWERS, 75 FILES SEARCHED IN STNINDEX

L2 QUE L1 AND (MIMIC OR SIMULAT?)

=> file hits

COST IN U.S. DOLLARS

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SINCE FILE ENTRY 3.99  
TOTAL SESSION 4.20

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=> s l2  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?')(P) AGING'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?')(P) AGING'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?')(P) AGING'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?')(P) AGING'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?')(P) AGING'  
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH  
FIELD CODE - 'AND' OPERATOR ASSUMED 'ESTRICT?')(P) AGING'  
L3 105 L2

=> dup rem l3  
DUPLICATE IS NOT AVAILABLE IN 'FEDRIP'.  
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE  
PROCESSING COMPLETED FOR L3  
L4 64 DUP REM L3 (41 DUPLICATES REMOVED)

=> d his

(FILE 'HOME' ENTERED AT 17:18:38 ON 26 OCT 2004)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,  
AQUASCI, BIOSUBS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,  
BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB,  
CROFU, DDFU, DGENE, DISSABS, ...' ENTERED AT 17:18:49 ON 26 OCT 2004  
SEA (CALORIE OR CALORIC OR DIET) (W) RESTRICT?

-----  
70 FILE ADISCTI  
5 FILE ADISINSIGHT  
4 FILE ADISNEWS  
762 FILE AGRICOLA  
1 FILE ANTE  
11 FILE AQUASCI  
23 FILE BIOSUBS  
2 FILE BIOCOMMERCE  
16 FILE BIOENG  
2768 FILE BIOSIS  
2 FILE BIOTECHABS  
2 FILE BIOTECHDS  
1943 FILE BIOTECHNO  
1003 FILE CABA  
362 FILE CANCERLIT  
2568 FILE CAPLUS  
1 FILE CEABA-VTB  
1 FILE CIN  
5 FILE CONFSCI  
137 FILE CROPB  
2 FILE CROFU

45 FILE DDFB  
66 FILE DDFU  
SEA (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) (P) AGING  
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0\* FILE ADISNEWS  
37 FILE AGRICOLA  
0\* FILE ANTE  
0\* FILE AQUALINE  
3 FILE BIOBUSINESS  
2\* FILE BIOCOMMERCE  
3\* FILE BIOENG  
462 FILE BIOSIS  
1\* FILE BIOTECHABS  
1\* FILE BIOTECHDS  
183\* FILE BIOTECHNO  
140 FILE CABA  
55 FILE CANCERLIT  
589 FILE CAPLUS  
0\* FILE CEABA-VTB  
0\* FILE CIN  
12 FILE CONFSCI  
4 FILE DDFU  
32 FILE DISSABS  
6 FILE DRUGU  
6 FILE ENBAL  
443 FILE EMBASE  
291\* FILE ESIIOBASE  
85\* FILE FEDRIP  
0\* FILE FOREGE  
0\* FILE FOMAD  
14\* FILE FROSTI  
3\* FILE FSTA  
6 FILE IFIPAT  
26 FILE JICST-EPIUS  
0\* FILE KOSMET  
76 FILE LIFESCI  
1\* FILE MEDICONF  
473 FILE MEDLINE  
1 FILE NIOSHTIC  
3\* FILE NTIS  
0\* FILE NUTRACEUT  
172\* FILE PASCAL  
0\* FILE PHARMAML  
27 FILE PROMT  
572 FILE SCISEARCH  
214 FILE TOXCENTER  
53 FILE USPATFULL  
4 FILE USPAT2  
1 FILE VETU  
0\* FILE WATER  
3 FILE WPIDS  
3 FILE WPINDEX  
L1 QUE (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) (P) AGING  
-----  
SEA L1 AND (MIMIC OR SIMULAT?)  
-----  
0\* FILE ADISNEWS

0\* FILE ANTE  
0\* FILE AQUALINE  
1 FILE BIOBUSINESS  
0\* FILE BIOCOMMERCE  
0\* FILE BIOENG  
6 FILE BIOSIS  
0\* FILE BIOTECHABS  
0\* FILE BIOTECHDS  
1\* FILE BIOTECHNO  
1 FILE CABA  
1 FILE CANCERLIT  
12 FILE CAPLUS  
0\* FILE CEABA-VTB  
0\* FILE CIN  
1 FILE DDFU  
2 FILE DISSABS  
1 FILE DRUGU  
5 FILE EMBASE  
3\* FILE ESIIOBASE  
9\* FILE FEDRIP  
0\* FILE FOMAD  
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2\* FILE FROSTI  
0\* FILE FSTA  
5 FILE IFIPAT  
0\* FILE KOSMET  
1 FILE LIFESCI  
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6 FILE MEDLINE  
0\* FILE NTIS  
0\* FILE NUTRACEUT  
1\* FILE PASCAL  
0\* FILE PHARMAML  
7 FILE PROMT  
7 FILE SCISEARCH  
7 FILE TOXCENTER  
22 FILE USPATFULL  
4 FILE USPAT2  
0\* FILE WATER  
1 FILE WPIDS  
1 FILE WPINDEX  
L2 QUE L1 AND (MIMIC OR SIMULAT?)  
-----  
FILE 'USPATFULL, CAPLUS, FEDRIP, PROMT, SCISEARCH, TOXCENTER, BIOSIS,  
MEDLINE, EMBASE, IFIPAT, USPAT2, ESIIOBASE, DISSABS, FROSTI, BIOBUSINESS,  
CABA, CANCERLIT, DRUGU, LIFESCI, WPIDS, BIOTECHNO, PASCAL' ENTERED AT  
17:23:16 ON 26 OCT 2004  
L3 105 S L2  
L4 64 DUP REM L3 (41 DUPLICATES REMOVED)  
=> s 14 and (identif? or assay?)  
14 FILES SEARCHED...  
L5 35 L4 AND (IDENTIF? OR ASSAY?)  
=> s 15 and PY<2000  
'2000' NOT A VALID FIELD CODE

5 FILES SEARCHED...  
7 FILES SEARCHED...  
9 FILES SEARCHED...  
15 FILES SEARCHED...  
17 FILES SEARCHED...  
<-----User Break----->

SEARCH ENDED BY USER

=> index biosci  
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
52.55	56.75

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 17:30:22 ON 26 OCT

2004

75 FILES IN THE FILE LIST IN STNINDEX

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=> s (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) (P) (MIMIC OR SIMULAT?)

0\* FILE ADISNEWS  
2 FILE AGRICOLA  
0\* FILE ANTE  
0\* FILE AQUALINE  
0\* FILE BIOCOMMERCE  
0\* FILE BIOENG  
18 FILE BIOSIS  
0\* FILE BIOTECHABS  
0\* FILE BIOTECHDS  
9\* FILE BIOTECHNO  
4 FILE CABA  
2 FILE CANCERLIT  
21 FILE CAPLUS  
0\* FILE CEABA-VTB  
<-----User Break----->  
<-----User Break----->  
<-----User Break----->  
<-----User Break----->  
<-----User Break----->

=> file biosci caplus  
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
5.13	61.88

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=> s (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) AND (MIMIC OR SIMULAT?)  
L6 60 (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) AND (MIMIC OR  
SIMULAT?)

=> dup rem 16  
PROCESSING COMPLETED FOR L6  
COMMAND INTERRUPTED

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=> dup rem 16  
PROCESSING COMPLETED FOR L6  
COMMAND INTERRUPTED

If this message appears repeatedly, please notify the Help Desk.  
Enter "HELP STN" for information on contacting the nearest STN Help  
Desk by telephone or via SEND in the STNMAIL file.

=> dup rem 16  
PROCESSING COMPLETED FOR L6  
COMMAND INTERRUPTED

If this message appears repeatedly, please notify the Help Desk.  
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Desk by telephone or via SEND in the STNMAIL file.

=> s 16 and intervention  
L10 5 L6 AND INTERVENTION

=> d l10 bib ab 1-5

L10 ANSWER 1 OF 5 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN  
AN 2004:285766 BIOSIS  
DN PREV200400284523  
TI Bed rest impairs and hypocaloric nutrition improves endothelium-dependent  
vasoreactivity.

AU Hesse, Christiane [Reprint Author]; Siedler, Heike; Haefeli, Walter E  
CS Department of Internal Medicine VI, Clinical Pharmacology and  
Pharmacoepidemiology, University Hospital, Bergheimer Str. 58, Heidelberg,  
D-69115, Germany

christiane\_hesse@med.uni-heidelberg.de  
SO FASEB Journal, (2004) Vol. 18, No. 4-5, pp. Abst. 820.6.  
http://www.fasebj.org/. e-file.

Meeting Info.: FASEB Meeting on Experimental Biology: Translating the  
Genome. Washington, District of Columbia, USA. April 17-21, 2004. FASEB.  
ISSN: 0892-6638 (ISSN print).

DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)

LA English

ED Entered STN: 16 Jun 2004

Last Updated on STN: 16 Jun 2004

AB Spaceflight and head-down-tilt bed rest (HDT) alter the regulation of the  
peripheral vasculature. We investigated in a cross-over study whether  
\*\*\*simulated\*\*\* microgravity (14 days of 6degrees HDT) and

\*\*\*caloric\*\*\*      \*\*\*restriction\*\*\*      (-25%, fat reduced) impair nitric oxide-dependent vasodilation. Using venous occlusion plethysmography cumulative intraarterial dose-response curves to endothelium-independent (sodium nitroprusside, SNP) and endothelium-dependent (acetylcholine, ACh) vasodilators were constructed in 10 healthy male volunteers before and on day 12 of each of four \*\*\*intervention\*\*\* periods (normo- (NC) or hypocaloric diet (HC) in upright position (UP) or HDT) and drug-induced changes of forearm blood flow were evaluated. HDT with NC significantly impaired the dose-response to ACh (ANOVA,  $p=0.004$ ) but not to SNP, whereas UP with HC significantly improved ACh ( $p=0.044$ ) and SNP responses ( $p<0.001$ ) compared to pre- \*\*\*intervention\*\*\*. When HDT was combined with HC there was only a trend towards impaired ACh responses while NC in UP had no effect. Individual diet-induced changes in LDL-cholesterol were not correlated with changes in endothelial function. In conclusion, HDT substantially impairs endothelium-dependent arterial relaxation in humans. The effect of bed rest is modulated by dietary factors and appears partially antagonized by a low fat diet. Supported by EMBE grant 50 WB 0150.

L10 ANSWER 2 OF 5 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN  
AN 2004:100452 BIOSIS  
DN ESTV200400102266  
TI Estimation of segmental muscle volume by bioelectrical impedance spectroscopy.  
AU Bartok, Cynthia; Schoeller, Dale A. [Reprint Author]  
CS Dept. of Nutritional Sciences, Univ. of Wisconsin Madison, 1415 Linden Dr., Madison, WI, 53706, USA  
dschoell@nutrisci.wisc.edu  
SO Journal of Applied Physiology, (January 2004) Vol. 96, No. 1, pp. 161-166.  
print.  
ISSN: 8750-7587 (ISSN print).  
Article  
English  
LA Entered STN: 18 Feb 2004  
ED Last Updated on STN: 18 Feb 2004

AB This study validated bioelectrical impedance spectroscopy (BIS) with Coler-Cole modeled measurements of calf and arm segmental water volume and volume changes during 72 h of \*\*\*simulated\*\*\* microgravity and \*\*\*caloric\*\*\* \*\*\*restriction\*\*\* by using magnetic resonance imaging (MRI) muscle volume as a criterion method. MRI and BIS measurements of calf and upper arm segments were made in 18 healthy men and women (age, 29±8 (SD) yr; height, 171±11 cm.; mass, 71±16 kg) before and after the \*\*\*intervention\*\*\*. Muscle volume of arm and leg segments by MRI was

average 15±10 and 14±8% lower, respectively, than the estimated total water volume by BIS ( $p<0.01$ ), but their correlations were excellent ( $r=0.96$  and  $r=0.93$ , respectively). MRI- vs. BIS-predicted volume changes were a decrease of 49±66 vs. 41±62 ml in the calf and a decrease of 18±23 vs. 11±24 ml in the arm, respectively ( $p>0.05$  for both). BIS detected the extracellular water shifts in the calf resulting from the head-down tilt treatment, but the underfeeding protocol was not of sufficient duration or intensity to produce limb intracellular water changes detectable by BIS. BIS was highly correlated with segmental muscle volume and tracked changes associated with head-down tilt. Further research, however, is needed to determine whether BIS can accurately access separate changes in intracellular and extracellular volume.

L10 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2004:669416 CAPLUS  
TI Development of \*\*\*calorie\*\*\* \*\*\*restriction\*\*\* mimetics as a longevity strategy  
AU Ingram, Donald K.; Anson, Michael; de Cabo, Rafael; Mamczarz, Jacek; Zhu, Min; Mattison, Julie; Lane, Mark A.; Roth, George S.  
CS Laboratory of Experimental Gerontology, Gerontology Research Center, National Institute on Aging, National Institutes of Health, Baltimore, MD, 21224, USA  
SO Annals of the New York Academy of Sciences (2004), 1019(Strategies for Engineered Negligible Senescence), 412-423  
CODEN: ANYA9; ISSN: 0077-8923  
PB New York Academy of Sciences  
DT Journal  
LA English

AB By applying \*\*\*calorie\*\*\* \*\*\*restriction\*\*\* (CR) at 30-50% below ad libitum levels, studies in numerous species have reported increased life span, reduced incidence and delayed onset of age-related diseases, improved stress resistance, and decelerated functional decline. Whether this nutritional \*\*\*intervention\*\*\* is relevant to human aging remains to be detd.; however, evidence emerging from CR studies in nonhuman primates suggests that response to CR in primates parallels that obsd. in rodents. To evaluate CR effects in humans, clin. trials have been initiated. Even if evidence could substantiate CR as an effective antiaging strategy for humans, application of this \*\*\*intervention\*\*\* would be problematic due to the degree and length of restriction required. To meet this challenge for potential application of CR, new research to create " \*\*\*caloric\*\*\* \*\*\*restriction\*\*\* mimetics" has emerged. This strategy focuses on identifying compds. that \*\*\*mimic\*\*\* CR effects by targeting metabolic and stress response pathways affected by CR, but without actually restricting caloric intake. Microarray studies show that gene expression profiles of key enzymes in glucose (energy) handling pathways are modified by CR. Drugs that inhibit glycolysis (2-deoxyglucose) or enhance insulin action (metformin) are being assessed as CR mimetics. Promising results have emerged from initial studies regarding physiol. responses indicative of CR (reduced body temp. and plasma insulin) as well as protection against neurotoxicity, enhanced dopamine action, and upregulated brain-derived neurotrophic factor. Further life span analyses in addn. to expanded toxicity studies must be completed to assess the potential of any CR mimetic, but this strategy now appears to offer a very promising and expanding research field.

RE.CNT 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:396662 CAPLUS  
DN 135:509  
TI Therapeutic \*\*\*intervention\*\*\* to \*\*\*mimic\*\*\* the effect of \*\*\*caloric\*\*\* \*\*\*restriction\*\*\*  
IN Chacon, Marco A.  
PA USA  
SO PCT Int. Appl., 24 pp.  
DT CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1 PATENT NO.      KIND      DATE      APPLICATION NO.      DATE

fasting blood serum insulin levels. It may be possible to design interventions to \*\*\*mimic\*\*\* certain metabolic effects and perhaps other beneficial effects of CR, such as life span extension and retardation of physiolo. aging.

RE.QNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 17:18:38 ON 26 OCT 2004)

INDEX 'ADISCT1, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DOENE, DISABS, ...' ENTERED AT 17:18:49 ON 26 OCT 2004

SEA ((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)

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70	FILE ADISCT1
5	FILE ADISINSIGHT
4	FILE ADISNEWS
762	FILE AGRICOLA
1	FILE ANTE
11	FILE AQUASCI
23	FILE BIOBUSINESS
2	FILE BIOCOMMERCE
16	FILE BIOENG
2768	FILE BIOSIS
2	FILE BIOTECHABS
2	FILE BIOTECHDS
1943	FILE BIOTECHNO
1003	FILE CABA
362	FILE CANCERLIT
2368	FILE CAPLUS
1	FILE CEABA-VTB
1	FILE CEN
5	FILE CIN
137	FILE CONFSCI
1	FILE CROPB
2	FILE CROPU
45	FILE DDFB
66	FILE DDFU

SEA (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) (P) AGING

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0*	FILE ADISNEWS
37	FILE AGRICOLA
0*	FILE ANTE
0*	FILE AQUALINE
3	FILE BIOBUSINESS
2*	FILE BIOCOMMERCE
3*	FILE BIOENG
462	FILE BIOSIS
1*	FILE BIOTECHABS
1*	FILE BIOTECHDS
183*	FILE BIOTECHNO
140	FILE CABA
55	FILE CANCERLIT

PI WO 2001037827 A1 20010531 WO 2000-US28322 20001013

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EP 1220669 A1 20020710 EP 2000-973504 20001013

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

JP 200314655 T2 20030422 JP 2001-539442 20001013

US 2002173450 A1 20021121 US 2002-120362 20020412

PRAI US 1999-159099P P 19991013

WO 2000-US28322 W 20001013

AB Methods are provided for promoting longevity and decreasing the incidence of aging-assoc. pathologies (e.g., cancer) by the administration of one or more of the following LFFA: linoleic, oleic and palmitic acids. Secondary LFFA derived from this set, as well as their CoA derivs. and synthetic analogs, are effective also in promoting longevity and delaying the onset of age-assoc. disorders. In addn., interventions including LFFA and CoA LFFA formulations are described which protect the organism from acute phys. stress, tissue damage and hypoxia (either due to trauma or secondary to surgical procedures).

RE.QNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999-670800 CAPLUS

DN 132:151081

TI 2-Deoxy-D-glucose feeding in rats mimics physiologic effects of \*\*\*calorie\*\*\* restriction\*\*\*

AU Lane, Mark A.; Ingram, Donald K.; Roth, George S.

CS Intramural Research Program, Gerontology Research Center, National Institute on Aging, Baltimore, MD, 21224-6823, USA

SO Journal of Anti-Aging Medicine (1998), 1(4), 327-337

PB CODEN: JAMER6; ISSN: 1094-5456

DT Mary Ann Liebert, Inc.

LA English

AB \*\*\*Caloric\*\*\* restriction\*\*\* (CR) extends the life span, slows the rate of aging, and delays the onset of many age-related diseases in short-lived lab. species, primarily rodents. Although it is not known if CR extends the life span in long-lived mammals, findings emerging from CR studies in rhesus monkeys agree with the rodent data suggesting that this \*\*\*intervention\*\*\* can have beneficial effects in primates. Even if CR could extend the life span in long-lived species, it is unlikely that the 30-40% decrease in dietary energy intake used typically in these studies would be accepted by humans. An alternative strategy may be to design interventions that \*\*\*mimic\*\*\* the biol. effects of CR but do not significantly decrease food intake. The glucose analog 2-deoxy-D-glucose (2-DG) could \*\*\*mimic\*\*\* certain effects of CR. We administered 2-DG at 0.2, 0.4, and 0.6% in the diet to male Fischer 344 rats. Rats fed 0.4% 2-DG weighed slightly less than controls and had decreased body temp. and



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589  FILE CAPIUS
0*  FILE CEABA-VTB
0*  FILE CIN
12  FILE CONFSCI
4   FILE DDFU
32  FILE DISSABS
6   FILE DRUGU
6   FILE ENBAL
443 FILE ENBASE
291* FILE ESBIOBASE
.85* FILE FEDRIP
0*  FILE FOMAD
0*  FILE FORGE
14* FILE FROSTI
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26  FILE JICST-RPIJUS
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76  FILE LIFESCI
1*  FILE MEDICONF
473 FILE MEDLINE
1   FILE NIOSHTIC
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172* FILE PASCAL
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572 FILE SCISEARCH
214 FILE TOXCENTER
53  FILE USPATFULL
4   FILE USPAT2
1   FILE VETU
0*  FILE WATER
3   FILE WPIDS
3   FILE WPINDEX
L1  QUE (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) (P) AGING
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MEDLINE, EMBASE, IFIPAT, USPAT2, ESBIOBASE, DISSABS, FROSTI, BIOBUSINESS,
CABA, CANCERLIT, DRUGU, LIFESCI, WPIDS, BIOTECHNO, PASCAL' ENTERED AT
17:23:16 ON 26 OCT 2004
L3  105 S L2
L4  64 DUP REM L3 (41 DUPLICATES REMOVED)
L5  35 S L4 AND (IDENTIF? OR ASSAY?)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE,
AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS,
BIOTECHNO, CABA, CANCERLIT, CAPIUS, CEABA-VTB, CIN, CONFSCI, CROPB,
CROPU, DDFB, DDFU, DGENE, DISSABS, ...' ENTERED AT 17:30:22 ON 26 OCT 2004
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9*  FILE BIOTECHNO
4   FILE CABA
2   FILE CANCERLIT
21  FILE CAPIUS
0*  FILE CEABA-VTB
0*  FILE CIN
0*  FILE DDFU

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FILE 'BIOSIS, CAPLUS' ENTERED AT 17:35:46 ON 26 OCT 2004

L6 60 S ((CALORIE OR CALORIC OR DIET) (W) RESTRICT?) AND (MIMIC OR

L10 5 S L6 AND INTERVENTION

=> s l6 and (identif? or assay?)

L11 6 L6 AND (IDENTIF? OR ASSAY?)

=> s l11 not l10

L12 5 L11 NOT L10

=> dup rem l12

PROCESSING COMPLETED FOR L12

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If this message appears repeatedly, please notify the Help Desk.

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Desk by telephone or via SEND in the STNMAIL file.

=> d l12 bib ab 1-5

L12 ANSWER 1 OF 5 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

AN 2002:479779 BIOSIS

DN PREV200200479779

TI Optimizing detection of QTLs retarding aging: Choice of statistical model

and animal requirements.

AU Klebanov, S.; Harrison, D. E. [Reprint author]

CS Jackson Laboratory, 600 Main St., Bar Harbor, ME, 04609-0800, USA

den@arche.jax.org

SO Mechanisms of Ageing and Development, (January, 2002) Vol. 123, No. 2-3,

pp. 131-144. print.

CODEN: MAGDAS. ISSN: 0047-6374.

DT Article

LA English

ED Entered STN: 11 Sep 2002

AB Last Updated on STN: 11 Sep 2002

Quantitative trait locus (QTL) analysis makes no assumptions about the

identity of genes involved in regulating aging. Moreover, it may be used

as the first step in identifying such genes and, thus QTL

analysis may be instrumental in formulating new hypotheses about aging.

Genetic experiments, however, require hundreds to thousands of animals and

are very expensive in mammals. Statistical power to detect longevity

genes could be improved by excluding accidental, unrelated to aging

mortality. While many early deaths are probably accidental, excluding

early mortality altogether eliminates the age-related component, too.

We used computer simulations to assess the effect of excluding

early age-related, mortality on the statistical power of several common

tests, such as t-test, Mann-Whitney and chi2. Surprisingly, even the

age-related, Gompertz component of early mortality reduces the statistical

power of the t- and Mann-Whitney tests. For example, in a backcross

design, to detect a gene allowing down the rate of aging and increasing

mouse life span by 10% (p=0.0001; power=0.8), a regular t-test will

require 640 mice, all kept for the entire life span and genotyped. If

life spans of only 25% of the longest-lived animals from each of the two

groups, carrying a putative longevity allele and not carrying it, are

compared, population size can be reduced by two-fold, to about 300, and

genotyping by seven-fold, to 90. Confirming simulations results,

the significance of the effect of \*\*\*caloric\*\*\* restriction\*\*\*

on life span increased from p=3.4x10-5 to 1.1x10-7, when life spans of

only 40% of the longest-lived mice from each of the two groups, ad libitum

fed and \*\*\*caloric\*\*\* restriction\*\*\*, were compared. Finally,

finding the optimal combination of statistical test, the number of

phenotyped and the number of genotyped animals, which would minimize

experimental costs was addressed.

L12 ANSWER 2 OF 5 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN

AN 2002:206727 BIOSIS

DN PREV200200206727

TI Melatonin fails to modulate immune parameters influenced by

\*\*\*caloric\*\*\* restriction\*\*\* in aging Fischer 344 rats.

AU Pahlavani, Mohammad A. [Reprint author]; Vargas, Daniel A.; Evans, Ted R.;

Shu, Jian-Hua; Nelson, James F.

CS Geriatric Research, Education, and Clinical Center, Audie L. Murphy

Memorial Veterans Hospital, 7400 Merton Winter Boulevard, GRECC - 182, San

Antonio, TX, 78284, USA

Pahlavani@uthscsa.edu

SO Experimental Biology and Medicine (Maywood), (March, 2002) Vol. 227, No.

3, pp. 201-207. print.

ISSN: 1535-3702.

DT Article

LA English

ED Entered STN: 20 Mar 2002

AB Last Updated on STN: 20 Mar 2002

The aim of this study was to determine if long-term treatment with

melatonin (MEL), a purported anti-aging agent, was as effective as

\*\*\*caloric\*\*\* restriction\*\*\* (CR) in modulating immune

parameters

in aging Fischer 344 male rats. Splenic lymphocytes were isolated from

17-month-old rats that, beginning at 6 weeks of age, were treated with MEL

(4 or 16 mug/ml in drinking water) and from 17-month-old rats fed ad

libitum (AL) or rats fed a CR diet (55% of AL intake). The number of

splenic T cell populations and T cell subsets was measured by flow

cytometry, the proliferative response of splenocytes to Concanavalin A

(Con A) and lipopolysaccharide (LPS) was measured by (3H)thymidine

incorporation, and the induction of cytokine production (IL-2 and

IFN-gamma) was measured by ELISA. \*\*\*assay\*\*\*. In addition, the level

of the natural killer (NK) cell activity was assessed by fluorimetric

\*\*\*assay\*\*\*. CR rats had a higher number of lymphocytes expressing the

naive T cell marker (CD3 OX22) than AL rats (p<0.05). CR rats also showed

greater induction of proliferative response, IL-2 and IFN-gamma levels

following Con A. \*\*\*simulation\*\*\*, and NK cell activity than AL rats

(p<0.05). MEL-treated rats did not differ from AL rats in any of these

parameters or in any other measurement. These results indicate that MEL

treatment is unable to modulate immune function in a manner comparable

with that of CR.

L12 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:602260 CAPLUS

DN 141:185183

TI CAR: detailing new models

AU Goodwin, Bryan; Moore, John T.

CS High Throughput Biology, Discovery Research, GlaxoSmithKline, Research

Triangle Park, NC, 27709, USA

SO Trends in Pharmacological Sciences (2004), 25(8), 437-441

CODEN: TPMSDY; ISSN: 0165-6147

PB Elsevier Ltd.  
DT Journal; General Review  
LA English  
AB A review. Functional anal. has broadened our understanding of the physiol. roles of the two related nuclear receptors pregnane X receptor (PXR; NR1I2) and constitutive androstane receptor (CAR; NR1I3). Initial research focused on the role of these two receptors in xenobiotic detoxification and, more recently, addnl. functional roles for CAR have been identified. Specifically, CAR activity has been shown to ameliorate the effects of hyperbilirubinemia, \*\*\*caloric\*\*\*. \*\*\*restriction\*\*\* and toxic bile acids. Thus, the physiol. role of CAR has broadened to include responses to metabolic and nutritional stress. These data highlight potential new opportunities in targeting CAR for drug discovery.

RE.QNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:461226 CAPLUS  
DN 137:30221  
TI Method for \*\*\*identification\*\*\* of interventions which \*\*\*mimic\*\*\* effects of \*\*\*caloric\*\*\*. \*\*\*restriction\*\*\* on aging  
IN Spindler, Stephen R.  
PA The Regents of the University of California, USA  
SO U.S., 150 pp., Cont.-in-part of U.S. Ser. No. 471,225.  
DT Patent  
LA English  
FAN.QNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6406853	B1	20020618	US 2000-648642	20000825
US 6391270	B1	20020521	US 1999-471225	19991223
WO 2001045752	A1	20010628	WO 2000-US35437	20001222
W: AE, AG, AL, AM, AT, AU, AZ, BA, BE, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AA, AZ, BY, BG, BR, BS, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, FR, GB, GR, IE, IT, LJ, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001024612	A5	20010703	AU 2001-24612	20001222
EP 1239885	A1	20020918	EP 2000-988400	20001222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003517830	T2	20030603	JP 2001-546691	20001222
US 2003124540	A1	20030703	US 2002-56749	20020122
US 2003224360	A9	20031204		
PRAI US 1999-471225	A2	19991223		
US 1999-471224	A	19991223		
US 2000-648642	A	20000825		
WO 2000-US35437	W	20001222		
AB Long term ***caloric*** ***restriction*** has the benefit of increasing life span. Methods to screen interventions that ***mimic*** the effects of ***caloric*** ***restriction*** are disclosed.				

Extensive anal. of genes for which expression is statistically different between control and \*\*\*caloric\*\*\*. \*\*\*restriction\*\*\* animals (mice) has demonstrated that specific genes are preferentially expressed during \*\*\*caloric\*\*\*. \*\*\*restriction\*\*\*. Screening for interventions which produce the same expression profile will provide interventions that increase life span. In a further aspect, it has been discovered that mice on a \*\*\*caloric\*\*\*. \*\*\*restriction\*\*\* diet for a relatively short time have a similar gene expression profile to mice which have been on a long term \*\*\*caloric\*\*\*. \*\*\*restriction\*\*\* diet. Thus, to identify\*\*\* effects of \*\*\*caloric\*\*\*. \*\*\*restriction\*\*\* on global patterns of gene expression, gene chip technol. was utilized to characterize the effects of long and short term \*\*\*caloric\*\*\*. \*\*\*restriction\*\*\* on the expression of approx. 11,000 genes in the liver. In both long and short term \*\*\*caloric\*\*\*. \*\*\*restriction\*\*\* mice, changes were obsd. in expression of immune system genes, genes enhancing genetic stability and apoptosis, genes of the enteric nervous system, and liver-specific genes. The expression of chaperone genes, e.g., Erp72, GRP170, GRP78, GRP94, and HSC70, calnexin and calreticulin, were particularly affected.

RE.QNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:353495 CAPLUS  
DN 135:74384  
TI \*\*\*Caloric\*\*\* \*\*\*restriction\*\*\* mimetics: Metabolic interventions  
AU Weindruch, Richard; Keenan, Kevin P.; Carney, John M.; Fernandes, Gabriel; Feuers, Ritchie J.; Floyd, Robert A.; Halter, Jeffrey B.; Ramsey, Jon J.; Richardson, Arlan; Roth, George S.; Spindler, Stephen R.  
CS Department of Medicine, University of Wisconsin, Madison, USA  
SO Journals of Gerontology, Series A: Biological Sciences and Medical Sciences (2001), 56A(Spec. Issue, 1), 20-33  
CODEN: JGASFW; ISSN: 1079-5006  
PB Gerontological Society of America  
DT Journal; General Review  
LA English  
AB A review with 162 refs. \*\*\*Caloric\*\*\* \*\*\*restriction\*\*\* (CR) retards diseases and aging in lab. rodents and is now being tested in nonhuman primates. One way to apply these findings to human health is to identify\*\*\* and test agents that may \*\*\*mimic\*\*\* crit. actions of CR. Panel 2 focused on two outcomes of CR, reductn. of oxidative stress and improved glucoregulation, for which candidate metabolic mimics exist. It was recommended that studies on oxidative stress should emphasize mitochondrial function and to test the efficacy of nitrate and other antioxidants in mimicking CR's effects. Studies should also focus on the long-term effects of compds. known to lower circulating glucose and insulin concns. or to increase insulin sensitivity. Also, four other developing areas were identified\*\*\*: intermediary metab., response to infection, stress responses, and source of dietary fat. These areas are important because either they hold promise for the discovery of new mimetics or they need to be explored prior to initiation of CR trials in humans. Other recommendations were that transgenic approaches and adult-onset CR should be emphasized in future studies.

RE.QNT 162 THERE ARE 162 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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INDEX 'ADISCTI', ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIUBUSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, ... ENTERED AT 17:18:49 ON 26 OCT 2004  
SEA ((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)

70 FILE ADISCTI  
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SEA (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) (P) AGING  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	42.66	104.54
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.20	-4.20

SESSION WILL BE HELD FOR 60 MINUTES  
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L3 105 S L2  
L4 64 DUP REM L3 (41 DUPLICATES REMOVED)  
L5 35 S L4 AND (IDENTIF? OR ASSAY?)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOSUBSINESS, BIOCOMMERCE, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPIUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDTU, DGENE, DISSABS, ...' ENTERED AT 17:30:22 ON 26 OCT 2004  
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2 FILE CANCERLIT  
21 FILE CAPIUS  
0\* FILE CEABA-VTB  
0\* FILE CIN  
0\* FILE DDFU

FILE 'BIOSIS, CAPIUS' ENTERED AT 17:35:46 ON 26 OCT 2004  
60 S (((CALORIE OR CALORIC OR DIET) (W) RESTRICT?)) AND (MIMIC OR  
5 S L6 AND INTERVENTION  
6 S L6 AND (IDENTIF? OR ASSAY?)  
5 S L11 NOT L10  
L6  
L10  
L11  
L12